



STIC Search Report

EIC 2800

STIC Database Tracking Number: 143443

TO: Mariceli Santiago

Location: JEF- 3D34

Art Unit : 2879

Wednesday, January 26, 2005

Case Serial Number: 09/384326

From: Darcy Bates

Location: EIC 2800

JEF- 4B68

Phone: 571-272-2540

darcy.bates@uspto.gov

Search Notes

Re: 09/384,326 US 5,661,362

Attached are search results.

No U. S. litigation was found in searches of Lexis-Nexis and Questel-Orbit databases.

If more searching or explanation is needed, please let me know.

**Thanks,
Darcy Bates**

Day : Wednesday
Date: 1/26/2005
Time: 15:32:17



PALM INTRANET

Continuity Information for 09/384326

Parent Data

09384326

is a reissue of [08657385](#)

Which is a continuation of [08191065](#)

Which is a continuation of [07705720](#)

Which is a continuation in part of [07218203](#)

Child Data

No Child Data

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Day : Wednesday
Date: 1/26/2005
Time: 15:33:00



PALM INTRANET

Application Number Information

Application Number: 08/657385 Assignments

Filing Date: 06/03/1996

Effective Date: 06/03/1996

Application Received: 06/03/1996

Patent Number: 5661362

Issue Date: 08/26/1997

Date of Abandonment: 00/00/0000

Attorney Docket Number: 35.C5745CIP/

Status: 150 /PATENTED CASE

Confirmation Number: 1938

Examiner Number: 72132 / DAY, MICHAEL

Group Art Unit: 2211

Class/Subclass: 313/309.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 08/14/1997

Title of Invention: FLAT PANEL DISPLAY INCLUDING ELECTRON EMITTING DEVICE

| Bar Code | PALM Location | Location Date | Charge to Loc | Charge to Name | Employee Name | Location |
|----------|---------------|---------------|---------------|-------------------|---------------|-------------|
| 08657385 | 28U1 | 01/25/2005 | 2879 | No Charge to Name | MARQUIS,LISSI | JEF/08/D 61 |

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Day : Wednesday
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PALM INTRANET

Continuity Information for 08/657385

Parent Data

08657385

is a continuation of 08396066

Which is a continuation of 08191065

Which is a continuation of 07705720

Which is a continuation in part of 07218203

Child Data

09384326 is a reissue of 08657385

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Day : Wednesday
Date: 1/26/2005
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PALM INTRANET

Application Number Information

Application Number: 08/396066 Assignments

Examiner Number: 72132 / DAY, MICHAEL

Filing Date: 02/28/1995

Group Art Unit: 2211

Effective Date: 02/28/1995

Class/Subclass: 313/309.000

Application Received: 02/28/1995

Lost Case: NO

Patent Number:

Interference Number:

Issue Date: 00/00/0000

Unmatched Petition: NO

Date of Abandonment: 06/03/1996

L&R Code: Secrecy Code:1

Attorney Docket Number: 35.C5745CIP/

Third Level Review: NO

Secrecy Order: NO

Status: 166 /ABANDONED -- FILE-WRAPPER-CONTINUATION PARENT APPLICATION

Status Date: 06/04/1996

Confirmation Number: 4480

Oral Hearing: NO

Title of Invention: FLAT PANEL DISPLAY INCLUDING ELECTRON EMITTING DEVICE

| Bar Code | PALM Location | Location Date | Charge to Loc | Charge to Name | Employee Name | Location |
|----------|---------------|---------------|---------------|-------------------|------------------|----------|
| 08396066 | 2200 | 12/13/1996 | 92F0 | No Charge to Name | LOE CONV DR1995C | |

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PALM INTRANET

Continuity Information for 08/396066

Parent Data

08396066

is a continuation of 08191065

Which is a continuation of 07705720

Which is a continuation in part of 07218203

Child Data

08474324 is a division of 08396066

08479000 is a division of 08396066

08487559 is a division of 08396066

08657385 is a continuation of 08191065

09148470 is a division of 08487559

09189624 is a division of 09148470

09570375 is a reissue of 08474324

09587249 is a reissue of 08479000

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Day : Wednesday
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PALM INTRANET
Application Number InformationApplication Number: 08/191065 Assignments

Filing Date: 02/03/1994

Effective Date: 02/03/1994

Application Received: 02/03/1994

Patent Number:

Issue Date: 00/00/0000

Date of Abandonment: 02/28/1995

Attorney Docket Number: 35.C5745CIPC

Status: 166 /ABANDONED -- FILE-WRAPPER-CONTINUATION PARENT APPLICATION

Confirmation Number: 9179

Examiner Number: 65691 / **HORABIK, MICHAEL**

Group Art Unit: 2211

Class/Subclass: 313/309.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:0

Third Level Review: NO

Secrecy Order: NO

Status Date: 04/03/1995

Title of Invention: ELECTRON-EMMITTING DEVICE

| Bar Code | PALM Location | Location Date | Charge to Loc | Charge to Name | Employee Name | Location |
|----------|---------------|---------------|---------------|-------------------|------------------|----------|
| 08191065 | 2200 | 04/10/1995 | 92F0 | No Charge to Name | LOE CONV DR1995C | |

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Day : Wednesday
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Time: 15:33:28

PALM INTRANET**Continuity Information for 08/191065****Parent Data**

08191065

is a continuation of 07705720

Which is a continuation in part of 07218203

Child Data

08396066 is a continuation of 08191065

08474324 is a division of 08396066

08479000 is a division of 08396066

08487559 is a division of 08396066

08657385 is a continuation of 08191065

09148470 is a division of 08487559

09189624 is a division of 09148470

09384326 is a reissue of 08657385

09570375 is a reissue of 08474324

09587249 is a reissue of 08479000

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Day : Wednesday
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PALM INTRANET

Application Number Information

Application Number: 07/705720 Assignments

Filing Date: 05/24/1991

Effective Date: 05/24/1991

Application Received: 05/24/1991

Patent Number:

Issue Date: 00/00/0000

Date of Abandonment: 02/04/1994

Attorney Docket Number: 35.C5745-CIP

Status: 168 /EXPRESSLY ABANDONED -- DURING EXAMINATION

Confirmation Number: 1540

Title of Invention: ELECTRON-EMITTING DEVICE

Examiner Number: 65691 / HORABIK, MICHAEL

Group Art Unit: 2604

Class/Subclass: 313/309.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 04/04/1994

Oral Hearing: NO

| Bar Code | PALM Location | Location Date | Charge to Loc | Charge to Name | Employee Name | Location |
|----------|---------------|---------------|-----------------------|-------------------|------------------|----------|
| 07705720 | 2600 | 04/07/1994 | No Charge to Location | No Charge to Name | LOE CONV DR1995C | |

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PALM INTRANET**Continuity Information for 07/705720****Parent Data**

07705720

is a continuation in part of 07218203

Child Data

08191065 is a continuation of 07705720

08396066 is a continuation of 08191065

08474324 is a division of 08396066

08479000 is a division of 08396066

08487559 is a division of 08396066

08657385 is a continuation of 08191065

09148470 is a division of 08487559

09189624 is a division of 09148470

09384326 is a reissue of 08657385

09570375 is a reissue of 08474324

09587249 is a reissue of 08479000

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Day : Wednesday
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PALM INTRANET

Application Number Information

Application Number: **07/218203** Assignments

Filing Date: **07/13/1988**

Effective Date: **07/13/1988**

Application Received: **07/13/1988**

Patent Number: **5066883**

Issue Date: **11/19/1991**

Date of Abandonment: **00/00/0000**

Attorney Docket Number: **35.C5745**

Status: **150 /PATENTED CASE**

Confirmation Number: **2518**

Examiner Number: **65691 / HORABIK, MICHAEL**

Group Art Unit: **2604**

Class/Subclass: **313/309.000**

Lost Case: **NO**

Interference Number:

Unmatched Petition: **NO**

L&R Code: Secrecy Code:**1**

Third Level Review: **NO**

Secrecy Order: **NO**

Status Date: **11/08/1991**

Oral Hearing: **NO**

Title of Invention: **ELECTRON-EMITTING DEVICE WITH ELECTRON-EMITTING REGION INSULATED FROM ELECTRODES**

| Bar Code | PALM Location | Location Date | Charge to Loc | Charge to Name | Employee Name | Location |
|-----------------|---------------|-------------------|------------------------------|-------------------|--------------------------|--------------------|
| 07218203 | 28U3 | 05/01/2004 | No Charge to Location | DEES, JOSE | INVENTORY,THIRTY6 | JEF/08/D 59 |

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PALM INTRANET**Continuity Information for 07/218203****Parent Data**

No Parent Data

Child Data07694014 is a continuation of 0721820307705720 is a continuation in part of 0721820308058801 is a continuation of 0769401408191065 is a continuation of 0770572008366430 is a continuation of 0805880108396066 is a continuation of 0819106508474324 is a division of 0839606608479000 is a division of 0839606608487559 is a division of 0839606608657385 is a continuation of 0819106509148470 is a division of 0848755909384326 is a reissue of 0865738509570375 is a reissue of 0847432409587249 is a reissue of 08479000[Appn Info](#) [Contents](#) [Petition Info](#) [Atty/Agent Info](#) [Continuity Data](#) [Foreign Data](#) [Inventors](#) [Address](#) [Fees](#) [Post Info](#) [Pre Grant Pub](#)Search Another: Application# or Patent# PCT / / or PG PUBS # Attorney Docket # Bar Code #

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Litigation involving patent **5,661,362**

Click on the docket number to view the docket.
Click on the above patent number to view the patent.

 Docket  Case Heading  Date Filed  Date Retrvd

There are no cases involving this patent number.

Litigation involving patent 5,066,883

Click on the docket number to view the docket.
Click on the above patent number to view the patent.

 Docket  Case Heading  Date Filed  Date Retrvd 

There are no cases involving this patent number.

Source: [Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents](#) [\[i\]](#)
Terms: [patno=5661362](#) ([Edit Search](#))

657385 (08) 5661362 August 26, 1997

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5661362

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August 26, 1997

Flat panel display including electron emitting device

REISSUE: Reissue Application filed Aug. 26, 1999 (O.G. Feb. 1, 2000) Ex. Gp.: 2875; Re. S.N. 09/384,326, (O.G. February 1, 2000)

INVENTOR: Yoshioka, Seishiro, Hiratsuka, JP; Nomura, Ichiro, Yamato, JP; Suzuki, Hidetoshi, Atsugi, JP; Takeda, Toshihiko, Tokyo, JP; Kaneko, Tetsuya, Yokohama, JP; Banno, Yoshikazu, Atsugi, JP; Yokono, Kojiro, Yokohama, JP

CERT-CORRECTION: March 31, 1998 - a Certificate of Correction was issued for this patent

APPL-NO: 657385 (08)

FILED-DATE: June 3, 1996

GRANTED-DATE: August 26, 1997

PRIORITY: July 15, 1987 - 62174837, Japan (JP); October 2, 1987 - 62250448, Japan (JP); October 9, 1987 - 62255063, Japan (JP); October 9, 1987 - 62255068, Japan (JP); April 27, 1988 - 63102485, Japan (JP); April 27, 1988 - 63102486, Japan (JP); April 27, 1988 - 63102487, Japan (JP); April 27, 1988 - 63102488, Japan (JP); June 21, 1988 - 63154516, Japan (JP)

ASSIGNEE-AT-ISSUE: Canon Kabushiki Kaisha, Tokyo, JP

LEGAL-REP: Fitzpatrick, Cella, Harper & Scinto

PUB-TYPE: August 26, 1997 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

REL-DATA:

Addition of Ser. No. 5066883, November 19, 1991
Addition of Ser. No. 396066, February 28, 1995
Addition of Ser. No. 191065, February 3, 1994
Addition of Ser. No. 705720, May 24, 1991

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[Sources](#) | [Guided Search Forms](#) | [Command Searching](#)[Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility Patents](#)***Enter Search Terms** Terms and Connectors Natural Language

patno=5661362

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Use connectors to show relationships between search terms. (Hover over a connector for description. Click a connector to add to search.)

Syntax Definition

| | |
|-----------|-----------------------|
| and | and |
| or | or |
| w/N | within N words |
| not w/N | not within N words |
| pre /N | precedes by N words |
| w/p | in same paragraph |
| not w/p | not in same paragraph |
| w/seg | in same segment |
| not w/seg | not in same segment |
| w/s | in same sentence |
| not w/s | not in same sentence |
| and not | and not |

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Select a Segment **Restrict by Date:** No Date Restrictions From To [Date Formats...](#)[Search](#) | [Research Tasks](#) | [Search Advisor](#) | [Get a Document](#) | [Shepard's®](#)[Eclipse™](#) | [History](#) | [Delivery Manager](#) | [Practice Area Pages](#) | [Switch Client](#) | [Preferences](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
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1/26/05

US 5,661,362

09/384326

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Query/Command : file pluspat

Selected file: PLUSPAT

Search statement 1

Query/Command : us5661362/pn

**** SS 3: Results 1**

Search statement 4

Query/Command : prt fu legalall max

1 / 1 *PLUSPAT - ©QUESTEL-ORBIT - image*
PN - US5661362 A 19970826 [US5661362]
TI - (A) Flat panel display including electron emitting device
PA - (A) CANON KK (JP)
PA0 - Canon Kabushiki Kaisha, Tokyo (JP)
IN - (A) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); YOKONO KOJIRO (JP); BANNO YOSHIKAZU (JP); KANEKO TETSUYA (JP); SUZUKI HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP)
AP - US65738596 19960603 [1996US-0657385]
FD - Cont. of US396066 19950228 [1995US-0396066] (Abandoned)
Cont. of US191065 19940203 [1994US-0191065] (Abandoned)
Cont. of US705720 19910524 [1991US-0705720] (Abandoned)
C.I.P. of US218203 19880713 [1988US-0218203]
Continuation-in-part of: US5066883 - 19911119
PR - US65738596 19960603 [1996US-0657385]
JP17483787 19870715 [1987JP-0174837]
JP25044887 19871002 [1987JP-0250448]
JP25506387 19871009 [1987JP-0255063]
JP25506887 19871009 [1987JP-0255068]
JP10248588 19880427 [1988JP-0102485]
JP10248688 19880427 [1988JP-0102486]
JP10248788 19880427 [1988JP-0102487]
JP10248888 19880427 [1988JP-0102488]
JP15451688 19880621 [1988JP-0154516]
US39606695 19950228 [1995US-0396066]
US19106594 19940203 [1994US-0191065]
US70572091 19910524 [1991US-0705720]
US21820388 19880713 [1988US-0218203]
IC - (A) H01J-001/30
EC - H01J-001/316
PCL - ORIGINAL (O) : 313309000; CROSS-REFERENCE (X) : 313336000
313346000R 313351000
DT - Basic
CT - US3278789; US3663857; US3735186; US4093562; US4325084; US5066883; EP0073031; DE1800952; DE1764994; DE2542349; DE2012101; DE2413942; JP44-27852; JP44-27853; JP44-28009; JP44-26125; JP44-32247; JP45-31615; JP46-20944; JP46-20949; JP46-20943; JP46-24456; JP46-38060; JP54-1147; JP56-18336; JP56-71239; SU855782; GB1267029; GB1335979; GB2060991
M. Hartwell et al., "Strong Electron Emission From Patterned Tin-indium Oxide Thin Films" Cambridge MA, pp. 519-521.

1/26/05

US 5,661,362

09/384326

M. Elinson et al., "The Emission Of Hot Electrons And The Field Emissions Of Electrons From Tin Oxide", Radio Engineering and Electron Physics, No. 7, Jul. 1965, pp. 1290-1296.

STG - (A) United States patent

AB - A display device consisting of an electron-emitting device which is a laminate of an insulating layer and a pair of opposing electrodes formed on a planar substrate. A portion of the insulating layer is between the electrodes and a portion containing an electron emitting region in between one electrode and the substrate. Electrons are emitted from the electron emission region by a voltage to the electrodes, thereby stimulating a phosphorous to emitting light.

1 / 1 LGST - ©EPO

PN - US5661362 A 19970826 [US5661362]

AP - US65738596 19960603 [1996US-0657385]

ACT - 19980331 US/CC-A

CERTIFICATE OF CORRECTION

20000201 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 19990826

UP - 2003-22

1 / 1 CRXX - ©CLAIMS/RRX

AN - 2876923

PN - 5,661,362 A 19970826 [US5661362]

PA - Canon K K JP

PT - E (Electrical)

ACT - 19990826 REISSUE REQUESTED

Issue Date of O.G.: 20000201

Reissue Request Number: 09/384326

Examination Group responsible for Reissue process: 2875

UP - 1999-00

UACT - 2000-02-01

Search statement 4

Query/Command : fam us5661362/pn

1 Patent Groups
** SS 4: Results 15

Search statement 5

Query/Command : famstate nonstop

1 / 15 *PLUSPAT - ©QUESTEL-ORBIT*

PN - DE3853744 D1 19950614 [DE3853744]
STG - (D1) Granted EP number in bulletin
OTI - (D1) Elektronenemittierende Vorrichtung.
PA - (D1) CANON KK (JP)
IN - (D1) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); SUZUKI HIDEKOSHI (JP); TAKEDA TOSHIHIKO (JP); KANEKO TETSUYA (JP); BANNO YOSHIKAZU (JP); YOKONO KOJIRO (JP)
IC - (D1) H01J-001/30 H01J-009/02
PN2 - DE3853744 T2 19960125 [DE3853744]
STG2- (T2) Trans. Of EP patent
OTI2- (T2) Elektronenemittierende Vorrichtung.
PA2 - (T2) CANON KK (JP)
IN2 - (T2) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); SUZUKI HIDEKOSHI (JP); TAKEDA TOSHIHIKO (JP); KANEKO TETSUYA (JP); BANNO YOSHIKAZU (JP); YOKONO KOJIRO (JP)
IC2 - (T2) H01J-001/30 H01J-009/02
AP - DE3853744 19880713 [1988DE-3853744]
PR - JP10248588 19880427 [1988JP-0102485]
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 JP17483787 19870715 [1987JP-0174837]
 JP25044887 19871002 [1987JP-0250448]
 JP25506387 19871009 [1987JP-0255063]
 JP25506887 19871009 [1987JP-0255068]

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PN - DE3853744 D1 19950614 [DE3853744] DE3853744 T2 19960125 [DE3853744]
AP - DE3853744 19880713 [1988DE-3853744]
ACTE- 19960605 DE/8364-A [+]
 NO OPPOSITION DURING TERM OF OPPOSITION

19990506 DE/8328-A
 CHANGE IN THE PERSON/NAME/ADDRESS OF THE AGENT
 WESER & KOLLEGEN, 81245 MUENCHEN
UP - 2003-22

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PN - EP0299461 A2 19890118 [EP-299461] EP0299461 A3 19900110
 [EP-299461] EP0299461 B1 19950510 [EP-299461]
AP - EP88111232 19880713 [1988EP-0111232]
ACTE- 19890118 EP/AK-A [+]
 DESIGNATED CONTRACTING STATES:
 DE FR GB NL

19900110 EP/AK-A [+]
 DESIGNATED CONTRACTING STATES:
 DE FR GB NL

19900905 EP/17P-A [+]
 REQUEST FOR EXAMINATION FILED
 EFFECTIVE DATE: 19900709

19920930 EP/17Q-A [+]
 FIRST EXAMINATION REPORT
 EFFECTIVE DATE: 19920818

19950510 EP/AK-A [+]
 DESIGNATED CONTRACTING STATES:
 DE FR GB NL

19950614 EP/REF-A
 CORRESPONDS TO:
 (DE 3853744 19950614 [DE3853744])

19950811 EP/ET-A [+]
 FR: TRANSLATION FILED

19960501 EP/26N-A [+]
 NO OPPOSITION FILED

20020101 EP/REG-A; GB/IF02 [+]
 GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
 <GB>

UP - 2003-22

2 / 15 PLUSPAT - ©QUESTEL-ORBIT - image
 PN - EP0299461 A2 19890118 [EP-299461]
 STG - (A2) Pub. Of applic. Without search report
 TI - (A2) Electron-emitting device.
 OTI - (A2) Elektronenemittierende Vorrichtung.
 (A2) Dispositif émetteur d'électrons.
 PA - (A2) CANON KK (JP)
 IN - (A2) YOSHIOKA SEISHIRO; NOMURA ICHIRO; YOKONO KOJIRO; BANNO YOSHIKAZU; KANEKO TETSUYA; SUZUKI HIDETOSHI; TAKEDA TOSHIHIKO
 IC - (A2) H01J-001/30 H01J-009/02
 PN2 - EP0299461 A3 19900110 [EP-299461]
 STG2- (A3) Publi. Of search report
 TI2 - (A3) ELECTRON-EMITTING DEVICE
 PN3 - EP0299461 B1 19950510 [EP-299461]
 STG3- (B1) Patent
 TI3 - (B1) Electron-emitting device.
 OTI3- (B1) Elektronenemittierende Vorrichtung.
 (B1) Dispositif émetteur d'électrons.
 PA3 - (B1) CANON KK (JP)
 IN3 - (B1) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); YOKONO KOJIRO (JP); BANNO YOSHIKAZU (JP); KANEKO TETSUYA (JP); SUZUKI HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP)
 IC3 - (B1) H01J-001/30 H01J-009/02
 LA - ENGLISH (ENG)
 AP - EP88111232 19880713 [1988EP-0111232]
 PR - JP10248588 19880427 [1988JP-0102485]
 JP10248688 19880427 [1988JP-0102486]
 JP10248788 19880427 [1988JP-0102487]
 JP10248888 19880427 [1988JP-0102488]
 JP15451688 19880621 [1988JP-0154516]
 JP17483787 19870715 [1987JP-0174837]
 JP25044887 19871002 [1987JP-0250448]
 JP25506387 19871009 [1987JP-0255063]
 JP25506887 19871009 [1987JP-0255068]
 EC - H01J-001/316
 H01J-009/02B4
 DS - DE FR GB NL
 DT - Basic

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1/26/05

US 5,661,362

09/384326

PN - EP0299461 A2 19890118 [EP-299461] EP0299461 A3 19900110
[EP-299461]

AP - EP88111232 19880713 [1988EP-0111232]

ACTE- 19890118 EP/AK-A [+]

DESIGNATED CONTRACTING STATES:

DE FR GB NL

19900110 EP/AK-A [+]

DESIGNATED CONTRACTING STATES:

DE FR GB NL

19900905 EP/17P-A [+]

REQUEST FOR EXAMINATION FILED

EFFECTIVE DATE: 19900709

19920930 EP/17Q-A [+]

FIRST EXAMINATION REPORT

EFFECTIVE DATE: 19920818

19950510 EP/AK-A [+]

DESIGNATED CONTRACTING STATES:

DE FR GB NL

19950614 EP/REF-A

CORRESPONDS TO:

(DE 3853744 19950614 [DE3853744]).

19950811 EP/ET-A [+]

FR: TRANSLATION FILED

19960501 EP/26N-A [+]

NO OPPOSITION FILED

20020101 EP/REG-A; GB/IF02 [+]

GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01

<GB>

UP - 2003-22

3 / 15 PLUSPAT - ©QUESTEL-ORBIT - image

PN - JP1200532 A 19890811 [JP01200532]

STG - (A) Doc. Laid open to publ. Inspec.

TI - (A) ELECTRON EMISSION ELEMENT AND MANUFACTURE THEREOF

PA - (A) CANON KK

PAO - (A) CANON INC

IN - (A) KANEKO TETSUYA; NOMURA ICHIRO; TAKEDA TOSHIHIKO; SAKANO YOSHIKAZU; SUZUKI HIDETOSHI; YOKONO KOJIRO

IC - (A) H01J-001/30

PN2 - JP7114104 B 19951206 [JP95114104]

STG2 - (B) Publd. Examined patent applic.

PN3 - JP2088241 C 19960902 [JP2088241]

STG3 - (C) Granted patent from 1000001 onwards

IC3 - (C) H01J-001/30 H01J-009/02

AP - JP10248588 19880427 [1988JP-0102485]

PR - JP10248588 19880427 [1988JP-0102485]

JP25506387 19871009 [1987JP-0255063]

ICO - T01J-201/30D

4 / 15 PLUSPAT - ©QUESTEL-ORBIT - image

PN - JP1105445 A 19890421 [JP01105445]

STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) ELECTRON EMITTING ELEMENT AND ITS MANUFACTURE
PA - (A) CANON KK
PAO - (A) CANON INC
IN - (A) YOSHIOKA SEISHIRO; NOMURA ICHIRO; YOKONO KOJIRO; KANEKO TETSUYA; SAKANO YOSHIKAZU; SUZUKI HIDETOSHI; TAKEDA TOSHIHIKO
IC - (A) H01J-029/48 H01J-037/06
PN2 - JP7114105 B 19951206 [JP95114105]
STG2- (B) Publd. Examined patent applic.
IC2 - (B) H01J-001/30 H01J-009/02
PN3 - JP2088242 C 19960902 [JP2088242]
STG3- (C) Granted patent from 1000001 onwards
AP - JP10248688 19880427 [1988JP-0102486]
PR - JP10248688 19880427 [1988JP-0102486]
 JP17483787 19870715 [1987JP-0174837]
EC - H01J-001/316
 H01J-009/02B4
DT - Corresponding document

5 / 15 PLUSPAT - ©QUESTEL-ORBIT - image
PN - JP1276528 A 19891107 [JP01276528]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) ELECTRON EMITTING ELEMENT
PA - (A) CANON KK
PAO - (A) CANON INC
IN - (A) KANEKO TETSUYA; NOMURA ICHIRO; SAKANO YOSHIKAZU; TAKEDA TOSHIHIKO
IC - (A) H01J-001/30
PN2 - JP6101297 B 19941212 [JP94101297]
STG2- (B) Publd. Examined patent applic.
PN3 - JP1971670 C 19950927 [JP1971670]
STG3- (C) Granted patent from 1000001 onwards
IC3 - (C) H01J-001/30
AP - JP10248788 19880427 [1988JP-0102487]
PR - JP10248788 19880427 [1988JP-0102487]
ICO - T01J-201/30D

6 / 15 PLUSPAT - ©QUESTEL-ORBIT - image
PN - JP1276529 A 19891107 [JP01276529]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) ELECTRON EMITTING ELEMENT
PA - (A) CANON KK
PAO - (A) CANON INC
IN - (A) KANEKO TETSUYA; NOMURA ICHIRO; SAKANO YOSHIKAZU; TAKEDA TOSHIHIKO
IC - (A) H01J-001/30
PN2 - JP7114106 B 19951206 [JP95114106]
STG2- (B) Publd. Examined patent applic.
PN3 - JP2088243 C 19960902 [JP2088243]
STG3- (C) Granted patent from 1000001 onwards
IC3 - (C) H01J-001/30 H01J-009/02
AP - JP10248888 19880427 [1988JP-0102488]
PR - JP10248888 19880427 [1988JP-0102488]
ICO - T01J-201/30D

7 / 15 PLUSPAT - ©QUESTEL-ORBIT - image
PN - JP1320725 A 19891226 [JP01320725]

STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) ELECTRON EMISSION ELEMENT
PA - (A) CANON KK
PAO - (A) CANON INC
IN - (A) KANEKO TETSUYA; TAKEDA TOSHIHIKO; SAKANO YOSHIKAZU; NOMURA ICHIRO; YOSHIOKA SEISHIRO
IC - (A) H01J-001/30
PN2 - JP7123022 B 19951225 [JP95123022]
STG2- (B) Publd. Examined patent applic.
PN3 - JP2083738 C 19960823 [JP2083738]
STG3- (C) Granted patent from 1000001 onwards
IC3 - (C) H01J-001/30
AP - JP15451688 19880621 [1988JP-0154516]
PR - JP15451688 19880621 [1988JP-0154516]

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PN - JP1093024 A 19890412 [JP01093024]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) ELECTRON EMITTING ELEMENT
PA - (A) CANON KK
PAO - (A) CANON INC
IN - (A) YOKONO KOJIRO; SUZUKI HIDETOSHI; NOMURA ICHIRO; KANEKO TETSUYA; TAKEDA TOSHIHIKO; SAKANO YOSHIKAZU
IC - (A) H01J-001/30
PN2 - JP6087391 B 19941102 [JP94087391]
STG2- (B) Publd. Examined patent applic.
PN3 - JP1952262 C 19950728 [JP1952262]
STG3- (C) Granted patent from 1000001 onwards
IC3 - (C) H01J-001/30
AP - JP25044887 19871002 [1987JP-0250448]
PR - JP25044887 19871002 [1987JP-0250448]
ICO - T01J-201/30D

9 / 15 PLUSPAT - ©QUESTEL-ORBIT - image
PN - JP1097354 A 19890414 [JP01097354]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) ELECTRON EMISSION ELEMENT
PA - (A) CANON KK
PAO - (A) CANON INC
IN - (A) NOMURA ICHIRO; YOKONO KOJIRO; KANEKO TETSUYA; SAKANO YOSHIKAZU; SUZUKI HIDETOSHI; TAKEDA TOSHIHIKO
IC - (A) H01J-029/48 H01J-037/06
PN2 - JP7123023 B 19951225 [JP95123023]
STG2- (B) Publd. Examined patent applic.
IC2 - (B) H01J-001/30
PN3 - JP2083726 C 19960823 [JP2083726]
STG3- (C) Granted patent from 1000001 onwards
AP - JP25506887 19871009 [1987JP-0255068]
PR - JP25506887 19871009 [1987JP-0255068]
EC - H01J-001/316
 H01J-009/02B4
DT - Corresponding document

10 / 15 PLUSPAT - ©QUESTEL-ORBIT
PN - US5066883 A 19911119 [US5066883]
STG - (A) United States patent
TI - (A) ELECTRON-EMITTING DEVICE WITH ELECTRON-EMITTING REGION

INSULATED FROM ELECTRODES
PA - (A) CANON KK (JP)
PAO - Canon Kabushiki Kaisha, Tokyo [JP]
IN - (A) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); YOKONO KOJIRO (JP); BANNO YOSHIKAZU (JP); KANEKO TETSUYA (JP); SUZUKI HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP)
IC - (A) H01J-001/02
AP - US21820388 19880713 [1988US-0218203]
PR - JP10248588 19880427 [1988JP-0102485]
 JP10248688 19880427 [1988JP-0102486]
 JP10248788 19880427 [1988JP-0102487]
 JP10248888 19880427 [1988JP-0102488]
 JP15451688 19880621 [1988JP-0154516]
 JP17483787 19870715 [1987JP-0174837]
 JP25044887 19871002 [1987JP-0250448]
 JP25506387 19871009 [1987JP-0255063]
 JP25506887 19871009 [1987JP-0255068]
EC - H01J-001/316
 H01J-009/02B4
PCL - ORIGINAL (O) : 313309000; CROSS-REFERENCE (X) : 313310000
 313336000 313346000R 313351000 313355000
DT - Corresponding document

1 / 1 *LEGALI - ©EPO*
PN - US5066883 A 19911119 [US5066883]
AP - US21820388 19880713 [1988US-0218203]
ACTE - 19880713 US/AS02-A
 ASSIGNMENT OF ASSIGNEE'S INTEREST
 OWNER: CANON KABUSHIKI KAISHA, 30-2, 3-CHOME, SHIMOMARUKO;
 EFFECTIVE DATE: 19880708

 19880713 US/AS02-A
 ASSIGNMENT OF ASSIGNEE'S INTEREST
 OWNER: YOSHIOKA, SEISHIRO; EFFECTIVE DATE: 19880708

 19880713 US/AS02-A
 ASSIGNMENT OF ASSIGNEE'S INTEREST
 OWNER: NOMURA, ICHIRO; EFFECTIVE DATE: 19880708

 19880713 US/AS02-A
 ASSIGNMENT OF ASSIGNEE'S INTEREST
 OWNER: SUZUKI, HIDETOSHI; EFFECTIVE DATE: 19880708

 19880713 US/AS02-A
 ASSIGNMENT OF ASSIGNEE'S INTEREST
 OWNER: TAKEDA, TOSHIHIKO; EFFECTIVE DATE: 19880708

 19880713 US/AS02-A
 ASSIGNMENT OF ASSIGNEE'S INTEREST
 OWNER: KA; EFFECTIVE DATE: 19880708

 19940426 US/CC-A
 CERTIFICATE OF CORRECTION
UP - 2003-22

11 / 15 *PLUSPAT - ©QUESTEL-ORBIT - image*
PN - US5532544 A 19960702 [US5532544]
STG - (A) United States patent
TI - (A) Electron-emitting device with electron-emitting region

insulated from electrodes
PA - (A) GANON KABUSHIKI KAISHA (JP)
PA0 - Ganon Kabushiki Kaisha, Tokyo [JP]
IN - (A) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); YOKONO KOJIRO (JP); BANNO YOSHIKAZU (JP); KANEKO TETSUYA (JP); SUZUKI HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP)
IC - (A) H04N-003/14
AP - US36643094 19941230 [1994US-0366430]
PR - US36643094 19941230 [1994US-0366430]
 JP17483787 19870715 [1987JP-0174837]
 JP25044887 19871002 [1987JP-0250448]
 JP25506387 19871009 [1987JP-0255063]
 JP25506887 19871009 [1987JP-0255068]
 JP10248588 19880427 [1988JP-0102485]
 JP10248688 19880427 [1988JP-0102486]
 JP10248788 19880427 [1988JP-0102487]
 JP10248888 19880427 [1988JP-0102488]
 JP15451688 19880621 [1988JP-0154516]
 US5880193 19930510 [1993US-0058801]
 US69401491 19910430 [1991US-0694014]
 US21820388 19880713 [1988US-0218203]
EC - H01J-001/316
 H01J-009/02B4
PCL - ORIGINAL (O) : 313310000; CROSS-REFERENCE (X) : 313309000
 313351000 315169300
DT - Corresponding document

12 / 15 PLUSPAT - ©QUESTEL-ORBIT - image
PN - US5749763 A 19980512 [US5749763]
STG - (A) United States patent
TI - (A) Display device with electron-emitting device with electron-emitting region insulated from electrodes
PA - (A) CANON KK (JP)
PA0 - Canon Kabushiki Kaisha, Tokyo [JP]
IN - (A) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); YOKONO KOJIRO (JP); BANNO YOSHIKAZU (JP); KANEKO TETSUYA (JP); SUZUKI HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP)
IC - (A) H01J-001/30 H01J-009/02
AP - US47432495 19950607 [1995US-0474324]
PR - US47432495 19950607 [1995US-0474324]
 JP17483787 19870715 [1987JP-0174837]
 JP25044887 19871002 [1987JP-0250448]
 JP25506387 19871009 [1987JP-0255063]
 JP25506887 19871009 [1987JP-0255068]
 JP10248588 19880427 [1988JP-0102485]
 JP10248688 19880427 [1988JP-0102486]
 JP10248788 19880427 [1988JP-0102487]
 JP10248888 19880427 [1988JP-0102488]
 JP15451688 19880621 [1988JP-0154516]
 US39606695 19950228 [1995US-0396066]
 US19106594 19940203 [1994US-0191065]
 US70572091 19910524 [1991US-0705720]
 US21820388 19880713 [1988US-0218203]
EC - H01J-001/316
PCL - ORIGINAL (O) : 445051000; CROSS-REFERENCE (X) : 427077000
DT - Basic

13 / 15 PLUSPAT - ©QUESTEL-ORBIT - image
PN - US5759080 A 19980602 [US5759080]

STG - (A) United States patent
TI - (A) Display device with electron-emitting device with
electron-emitting region insulated from electrodes
PA - (A) CANON KK (JP)
PA0 - Canon Kabushiki Kaisha, Tokyo [JP]
IN - (A) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); YOKONO KOJIRO
(JP); BANNO YOSHIKAZU (JP); KANEKO TETSUYA (JP); SUZUKI
HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP)
IC - (A) H01J-001/30 H01J-009/02
AP - US47900095 19950607 [1995US-0479000]
PR - US47900095 19950607 [1995US-0479000]
 JP17483787 19870715 [1987JP-0174837]
 JP25044887 19871002 [1987JP-0250448]
 JP25506387 19871009 [1987JP-0255063]
 JP25506887 19871009 [1987JP-0255068]
 JP10248588 19880427 [1988JP-0102485]
 JP10248688 19880427 [1988JP-0102486]
 JP10248788 19880427 [1988JP-0102487]
 JP10248888 19880427 [1988JP-0102488]
 JP15451688 19880621 [1988JP-0154516]
 US39606695 19950228 [1995US-0396066]
 US19106594 19940203 [1994US-0191065]
 US70572091 19910524 [1991US-0705720]
 US21820388 19880713 [1988US-0218203]
EC - H01J-009/02B4
PCL - ORIGINAL (O) : 445051000; CROSS-REFERENCE (X) : 445024000
DT - Basic

1 / 1 *LEGALI - ©EPO*
PN - US5759080 A 19980602 [US5759080]
AP - US47900095 19950607 [1995US-0479000]
ACTE - 20000208 US/CC-A
 CERTIFICATE OF CORRECTION

20001003 US/RF-A
 REISSUE APPLICATION FILED
 EFFECTIVE DATE: 20000602
UP - 2003-22

14 / 15 *PLUSPAT - ©QUESTEL-ORBIT - image*
PN - US5872541 A 19990216 [US5872541]
STG - (A) United States patent
TI - (A) Method for displaying images with electron emitting device
PA - (A) CANON KK (JP)
PA0 - Canon Kabushiki Kaisha, Tokyo [JP]
IN - (A) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); SUZUKI HIDETOSHI
(JP); TAKEDA TOSHIHIKO (JP); KANEKO TETSUYA (JP); BANNO
YOSHIKAZU (JP); YOKONO KOJIRO (JP)
IC - (A) G09G-003/22
AP - US48755995 19950607 [1995US-0487559]
PR - JP10248588 19880427 [1988JP-0102485]
 JP10248688 19880427 [1988JP-0102486]
 JP10248788 19880427 [1988JP-0102487]
 JP10248888 19880427 [1988JP-0102488]
 JP15451688 19880621 [1988JP-0154516]
 JP17483787 19870715 [1987JP-0174837]
 JP25044887 19871002 [1987JP-0250448]
 JP25506387 19871009 [1987JP-0255063]
 JP25506887 19871009 [1987JP-0255068]

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US19106594 19940203 [1994US-0191065]
US21820388 19880713 [1988US-0218203]
US39606695 19950228 [1995US-0396066]
US48755995 19950607 [1995US-0487559]
US70572091 19910524 [1991US-0705720]

ICO -

T01J-231/123

PCL -

ORIGINAL (O) : 345074100; CROSS-REFERENCE (X) : 345076000

DT -

Basic

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LEGALI - ©EPO

PN -

US5872541 A 19990216 [US5872541]

AP -

US48755995 19950607 [1995US-0487559]

ACTE -

20001010 US/CC-A

CERTIFICATE OF CORRECTION

UP -

2003-22

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PLUSPAT - ©QUESTEL-ORBIT - image

PN -

US5661362 A 19970826 [US5661362]

STG -

(A) United States patent

TI -

(A) Flat panel display including electron emitting device

PA -

(A) CANON KK (JP)

PAO -

Canon Kabushiki Kaisha, Tokyo [JP]

IN -

(A) YOSHIOKA SEISHIRO (JP); NOMURA ICHIRO (JP); YOKONO KOJIRO (JP); BANNO YOSHIKAZU (JP); KANEKO TETSUYA (JP); SUZUKI HIDETOSHI (JP); TAKEDA TOSHIHIKO (JP)

IC -

(A) H01J-001/30

AP -

US65738596 19960603 [1996US-0657385]

PR -

US65738596 19960603 [1996US-0657385]

JP17483787 19870715 [1987JP-0174837]

JP25044887 19871002 [1987JP-0250448]

JP25506387 19871009 [1987JP-0255063]

JP25506887 19871009 [1987JP-0255068]

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JP10248688 19880427 [1988JP-0102486]

JP10248788 19880427 [1988JP-0102487]

JP10248888 19880427 [1988JP-0102488]

JP15451688 19880621 [1988JP-0154516]

US39606695 19950228 [1995US-0396066]

US19106594 19940203 [1994US-0191065]

US70572091 19910524 [1991US-0705720]

US21820388 19880713 [1988US-0218203]

EC -

H01J-001/316

PCL -

ORIGINAL (O) : 313309000; CROSS-REFERENCE (X) : 313336000
313346000R 313351000

DT -

Basic

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LEGALI - ©EPO

PN -

US5661362 A 19970826 [US5661362]

AP -

US65738596 19960603 [1996US-0657385]

ACTE -

19980331 US/CC-A

CERTIFICATE OF CORRECTION

20000201 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 19990826

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| <u>not w/N</u> | not within N words |
| <u>pre /N</u> | precedes by N words |
| <u>w/p</u> | in same paragraph |
| <u>not w/p</u> | not in same paragraph |
| <u>w/seg</u> | in same segment |
| <u>not w/seg</u> | not in same segment |
| <u>w/s</u> | in same sentence |
| <u>not w/s</u> | not in same sentence |
| <u>and not</u> | and not |

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 Terms and Connectors Natural Language

5661362 or 5,661,362

Search Connectors

Use connectors to show relationships between search terms. (Hover over a connector for description. Click a connector to add to search.)

Syntax Definition

| | |
|------------------|-----------------------|
| <u>and</u> | and |
| <u>or</u> | or |
| <u>w/N</u> | within N words |
| <u>not w/N</u> | not within N words |
| <u>pre /N</u> | precedes by N words |
| <u>w/p</u> | in same paragraph |
| <u>not w/p</u> | not in same paragraph |
| <u>w/seg</u> | in same segment |
| <u>not w/seg</u> | not in same segment |
| <u>w/s</u> | in same sentence |
| <u>not w/s</u> | not in same sentence |
| <u>and not</u> | and not |

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Restrict by Segment:

Select a segment, enter search terms for the segment, then click Add.

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- Check for spelling errors.
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Terms and Connectors Natural Language

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